

## **mRNA Sequencing**

### **ALAL**

\*Protocols were performed by St. Jude Children's Research Hospital

At SJCRH, total RNA quality and quantity were assessed on Agilent RNA6000 chips (Agilent Technologies) and Qubit (Life Technologies). RNA-seq libraries were prepared from 500 ng of total RNA for each sample following Illumina RNA-seq protocols, including DNase treatment and phenol purification, cDNA conversion, fragmentation by Covaris Ultrasonicator, end repair, deoxyadenosine tailing, adaptor ligation and PCR amplification (ten cycles). Libraries with a 10 pM concentration were clustered on an Illumina cBot, and each flow cell was loaded onto a HiSeq instrument for sequencing using the Illumina 2×100 bp sequencing kit.